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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,157	11/03/2003	Robert N. Nazzari	12221-026001	5548
26161 7590 06/27/2007 FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			EXAMINER GEE, JASON KAI YIN	
			ART UNIT 2134	PAPER NUMBER
			MAIL DATE 06/27/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/701,157	NAZZAL, ROBERT N.	
	Examiner	Art Unit	
	Jason K. Gee	2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is response to communication: filed on 11/03/2003 with acknowledgement of benefit date of 11/04/2002.
2. Claims 1-25 are currently pending in this application. Claims 1, 10, and 22 are independent claims.
3. No IDS was received for this application.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 3, 4, 9, 15-17, 21, and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claims 3-4, claim 3 recites "on the overview page." There is insufficient antecedent basis for this term in the claim, and is therefore indefinite.

As per claim 9, the claim recites "to which the host attempted to connect." There is insufficient antecedent basis for this term in the claim, and is therefore indefinite.

As per claims 15-17, claim 15 recites "normal operating conditions." It is unclear what the term "normal" is defined as, and therefore, the metes and bounds of the claim are indefinite.

As per claim 21, the claim recites "the network statistical measure." There is insufficient antecedent basis for this term in the claim, and is therefore indefinite.

As per claim 24, the claim recites "on the overview page." There is insufficient antecedent basis for this term in the claim, and is therefore indefinite.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-9 and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper US Patent Application Publication 2002/0069200 (hereinafter Cooper), and in view of Symantec's *Symantec Antivirus for Macintosh SAM*, 1994, (hereinafter Symantec).

As per claim 1, Cooper teaches a graphical user interface for an intrusion detection system, the graphical user interface comprising: a field that depicts a summary of anomalies identified as part of a event that is detected in a network (throughout the reference, such as Figure 26, paragraph 514, abstract, paragraph 42), the summary indicating event severity details of the event (Figure 26). However, at the time of the invention, Cooper does not explicitly teach an alert action region including a control to permit a user to snooze future alerts related to the event in the summary for a period of time. A snooze for future alerts is taught Symantec though, such as in pages

4-9 and 5-6, wherein an event may be allowed to continue, and an alert may be prevented from appearing in the future.

At the time of the invention, it would have been obvious to combine the teachings of Cooper with Symantec. One of ordinary skill in the art would have been motivated to perform such an addition, as some anomalies are not necessarily a sign of malicious activity. If this is the case, it would be beneficial to snooze these alerts, as they are not malicious, and it would be more convenient to the user. Symantec teaches in 5-6 that not all suspicious activity alerts necessarily means there is malicious activity.

As per claim 2, Symantec teaches wherein the snooze control feature can be selected based on event types (4-9 and 5-6, such as when events occur when copying programs). Cooper then teaches the preventing of unnecessary alerts due to roles of hosts, such as in paragraphs 100 and 158.

As per claim 3, as best understood by the Examiner, Symantec teaches clearing alerts if the alerts appear on the overview page (pages 5-6 and 4-9).

As per claim 4, Cooper teaches wherein an event details region of the graphical user interface depicts anomalies that were used to classify the event (Figure 22).

As per claim 5, Cooper teaches wherein details of events include values of source (Figure 23), destination (Figure 23), and protocol that caused an event to be raised (Figure 24).

As per claim 6, Cooper teaches wherein event severity is coded by an indicia (Figures 22, 25, 26, paragraph 520).

Art Unit: 2134

As per claim 7, Symantec teaches a control to clear a selected alert (4-9 and 5-6). This is also taught in Cooper, such as in paragraph 594

As per claim 8, Cooper teaches wherein the interface includes a details control that allows a user to observe details about a selected anomaly (Figures 26 and 27, wherein a view button is available to view details).

As per claim 9, Cooper teaches wherein the details control presents a list of IP addresses to which the host attempted to connect (Figures 27, 29, 30 and throughout the reference).

Independent claim 22 is rejected using the same basis of arguments used to reject claim 1 above.

Claim 23 is rejected using the same basis of arguments used to reject claim 2 above.

Claim 24 is rejected using the same basis of arguments used to reject claim 7 above.

Claim 25 is rejected using the same basis of arguments used to reject claim 8 above.

8. Claims 10-14 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper and Symantec as applied above, and further in view of Billhartz US Patent No. 6,986,161 (hereinafter Billhartz).

Art Unit: 2134

Independent claim 10 is rejected using the same basis of arguments used to reject claim 1 above. However, Cooper and Symantec do not explicitly teach an event having a percentage relationship to an established threshold for issuing an event notification. This is taught throughout Billhartz though, such as in col. 8 line 41 to col. 9 line 10.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to include basing event notifications on percent relationships. One of ordinary skill in the art would have been motivated to perform such an addition to provide greater certainty when issuing alerts, thereby reducing false positives. As indicated in col. 2 lines 15-23 of Billhartz, the previous intrusion detection systems do not reliably indicate whether some nodes are rouge or legitimate nodes.

As per claim 11, Symantec teaches an event to be snoozed for a fixed period of time (pages 4-9, 5-6, and 5-7).

Claim 12 is rejected using the same basis of arguments used to reject claim 2 above.

Claim 13 is rejected using the same basis of arguments used to reject claim 7 above.

Claim 14 is rejected using the same basis of arguments used to reject claim 8 above.

As per claim 18, as best understood by the Examiner, details of source and destination populated with IP addresses is taught throughout Cooper, as can be seen in

Figures 23. Cooper then teaches the preventing of unnecessary alerts due to roles of hosts, such as in paragraphs 100 and 158.

9. Claims 15-17 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper, Symantec, and Billhartz, as applied above, and further in view of Porras US Patent No. 6,321,338 (hereinafter Porras).

As per claim 15, the Billhartz combination teaches all of the previous limitations, and the GUI interface for detecting intruders. However, it does not teach indicating normal operating conditions of a host and current operating conditions of a host. Comparing these two are taught throughout Porras, such as in col. 2 lines 25-35; col. 6 lines 39-60; and col. 8 line 65 to col. 9 line 7.

At the time of the invention, it would have been obvious to combine the teachings of Porras with the Billhartz combination. Porras teaches creating long term statistical profiles ('normal' operating conditions), and comparing them with short term statistical profiles ('current' operating conditions). By doing so, network intrusion can be detected with greater accuracy and would provide greater security to networks (col. 2 lines 40-68).

As per claim 16, Porras teaches a comparison between normal and current connection rates of the host (col. 6 lines 1-20). The displaying of such features is taught by the Billhartz combination, as indicated earlier.

Art Unit: 2134

As per claim 17, Porras teaches throughout the reference events such as historical anomaly, as it compares previous long term statistical profiles. Porras also teaches event types like worm propagation, such as in col. 4 lines 25-48. Further, Porras teaches event types such as denials of service (col. 1 lines 55-65, col. 13 line 60-col. 14 line 7). Cooper teaches unauthorized access throughout the reference, and for example, can be seen in Figure 22.

As per claim 21, as best understood by the examiner, Porras teaches wherein a statistical measure is a number of bytes per second and packets per second of each type of protocol observed in the system (col. 5 lines 30-37).

10. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper, Symantec, and Billhartz, as applied above, and further in view of Central Point's *Central Point Anti-Virus – Virus detection, Removal and Prevention*, 1991 (hereinafter Central Point).

As per claim 19, the Billhartz combination does not explicitly teach displaying actions taken by the operator for the particular event. However, this is taught by Central Point, on pages 46-47.

At the time of the invention, it would have been obvious to combine the teachings of Central Point with the Billhartz combination. One of ordinary skill in the art would have been motivated to perform such an addition to create such records for data

Art Unit: 2134

logging and for future references. This is taught on page 46 of Central Point, where it teaches that logs may be used for future references.

11. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper, Symantec, and Billhartz, as applied above, and further in view of Kuroshita US Patent No. 5,550,807 (hereinafter Kuroshita).

As per claim 20, displaying network statistics is taught throughout Cooper, such as in Figure 20. Although the Cooper combination teaches displaying many different statistics, the references do not explicitly teach displaying a ranking of hosts in the network according to a network statistical measure. Ranking hosts according to network statistical measures are taught by Kuroshita though, such as in col. 1 line 34-52.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to combine the teachings of Kuroshita with the Cooper combination. One of ordinary skill in the art would have been motivated to perform such an addition to manage the network and standardizing a network management protocol. This is taught by Kuroshita in col. 1 lines 52-53.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason K. Gee whose telephone number is (571) 272-6431. The examiner can normally be reached on M-F, 7:00 am to 4:30 pm.

Art Unit: 2134

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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06/21/2007



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